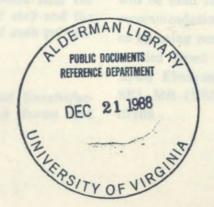
DEPARTMENT OF THE ARMY TECHNICAL MANUAL

INSTALLATION OF RADIO SET AN/GRC-106 IN TRUCK, 1/4-TON, 4 BY 4, M151

Headquarters, Department of the Army, Washington, D.C. 29 April 1966

			Paragraph	Page
CHAPTER	1.	INTRODUCTION		
		Scope	1-1	3
		Index of publications		3
		Forms and records	1-3	3
CHAPTER	2.	INSTALLATION		
SECTION	I.	Service upon receipt of equipment		
		Unpacking	2-1	5
		Checking unpacked equipment		5
SECTION	II.	Equipment installation		
		Tools required for installation	2-3	5
		Installation instructions	2-4	5
APPENDIX		REFERENCES		. 9





CHAPTER 1

INTRODUCTION

1-1. Scope

This manual provides instructions for mounting the installation unit (FSN 5820-082-3475) that permits mounting Radio Set AN/-GRC-106 in Truck, 1/4-ton, 4 by 4, M151.

1-2. Index of Publications

Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to this equipment. DA Pam 310-4 is a current index of technical manuals, technical bulletins, supply manuals, (types 7, 8, and 9), supply bulletins, lubrication orders, and modification work orders available through publications supply channels. The index lists the individual parts (-10, -20, -35P etc) and the latest changes to and revisions of each publication.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and

records in accordance with instructions in TM 38-750.

- b. Report of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58 (Army), NAVSANDA Publication 378 (Navy), and AFR 71-4 (Air Force).
- c. Reporting of Equipment Manual Improvements. The direct reporting by the individual user of errors, omissions, and recommendations for improving this manual is authorized and encouraged. DA Form 2028 (Recommended Changes to DA Publications) will be used for reporting these improvement recommendations. This form will be completed by using pencil, pen, or typewriter, and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MR-(NMP)-MA, Fort Monmouth, N. J. 07703.

CHAPTER 2

INSTALLATION

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

2-1. Unpacking

Move the packing boxes close to the location where the installation is to take place and unpack the parts of the installation unit. Be careful not to lose any of the parts.

2-2. Checking Unpacked Equipment

- a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6 (para 1-3).
- b. See that the equipment is complete as listed in the packing slip. If a packing slip is not available, the completeness of the installation unit can be determined by comparing the

parts received with the items listed on the installation drawing (fig. 2-4). Report all discrepancies in accordance with TM 38-750. Shortage of a minor assembly or part that does not affect proper installation or functioning of the equipment should not prevent the equipment from being installed.

c. When vehicles with radio sets are to be turned in or transferred, communication equipment will be removed and reinstalled in new replacement vehicles. Additional items which are required to complete installations should be requisitioned as individual items. To determine the Federal stock number of authorized items in the installation unit, refer to SB 11-131.

Section II. EQUIPMENT INSTALLATION

2-3. Tools Required for Installation

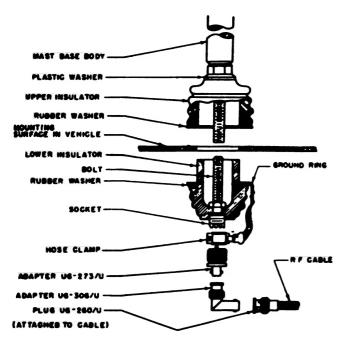
The tools required for installation of Radio Sct AN/GRC-106 are a part of Tool Kits, Radar and Radio Repairman TK-87()/U, and Supplementary, Radar and Radio Repair, TK-88()/U. The following additional items are needed:

- a. 1 electric drill (3/8 inch).
- b. 1 set of drill bits (1/16 inch to 3/8 inch).

2-4. Installation Instructions

a. To accomplish the installation, follow the instructions shown on figures 2-1 through 2-4.

- b. The following additional information is provided:
 - The positive terminal of the 24-volt vehicle battery is marked with a plus
 (+) and is larger in diameter than the negative (-) terminal.
 - (2) To drill the correct size holes for the sheet metal screws which hold the plastic cable clamps, select a drill bit that is slightly smaller in diameter than the screw.
 - (3) When the installation is completed, check the tightness of all bolts and screws.



ASSEMBLY INSTRUCTIONS

L. REPLACE ALL ITEMS OF MAST SASE MP-65-() ENCEPT THE MAST SASE SOOV WITH ADAPTER RIT M-459. THIS STEP IS MOT REGUMED FOR LATE PRODUCTION MODELS OF MP-65-0 WHICH ARE ALREADY EQUIPPED WITH A COARIAL TYPE SOCKET WITH REMOVABLE DIMONIS POST ASSEMBLY, 2. PLACE ONE LANGE RUBGER WASHER AND THE UPPER INSULATOR OVER THE MOUNTHIS HOLE. A. PLACE THE SMALL PLASTIC WASHER ON THE STEM OF THE MAST

A PLACE THE SMALL PLASTIC WASHER ON THE STEM OF THE MAST SASE BOOY.

4 HISERT THE MAST SASE BOOY MITO THE HOLE IN THE UPPER HISULATOR.

5 PLACE THE OTHER LARGE RUSSER WASHER ON THE LOWER HUSULATOR.

6. PLACE THE ORIGINO RING ON TOP OF THE WASHER, GROUND RING IS MOT REQUIRED WHEN AF CADLE CG-SOAPU IS EMPLOYED.

7. HISERT THE LOWER HISULATOR MITO THE MOUNTING HOLE FROM UNDERNEATH.

UNDERNEATH. 8 ASSEMBLE THE MAST BASE OF HOLDING THE LOWER HISULATOR AND TURNING THE MAST BASE GOOF UNTIL THE MAST BASE IS SECURE.

TO ATTACH ANTENNA LEAD-IN TO MAST BASE
I UNSCREW BINGING POST ASSEMBLY FROM LOWER INSULATOR AND
DISCARD.

2. ATTACH ADAPTER US-273/U TO THE ADAPTER SOCKET ON THE

2. ATTACH ABAPTER US-273/U TO THE ABAPTER SOCKET ON THE LOWER INSULATION.

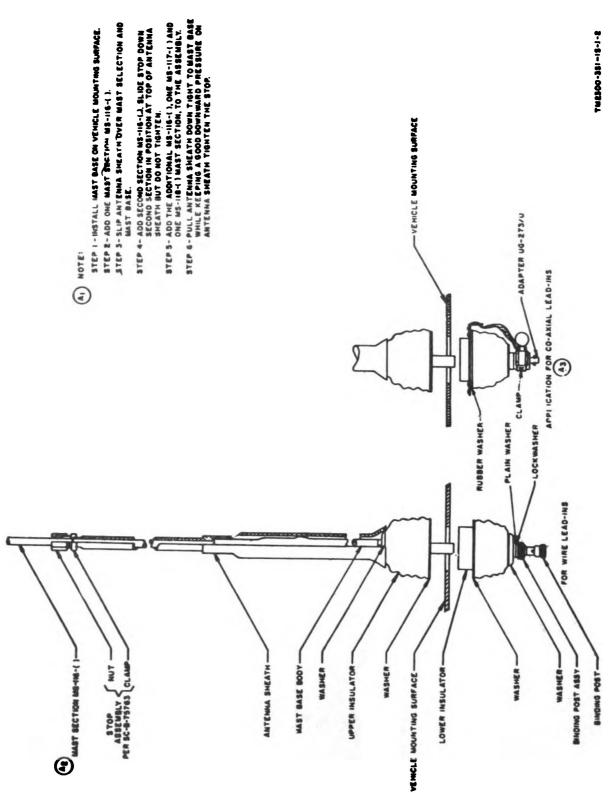
3. SLIP MOSE CLAMP OVER ABAPTER AND TIGHTEN SECURELY.
MOSE CLAMP IN NOT REQUIRED WIRK IF CABLE CS-586/U IS USED

4. ABAPTER US-386/U MAY DE ATTACHED TO ABAPTER US-273/U
FA RIGHT ANGLE CONNECTOR IS DESIRED.

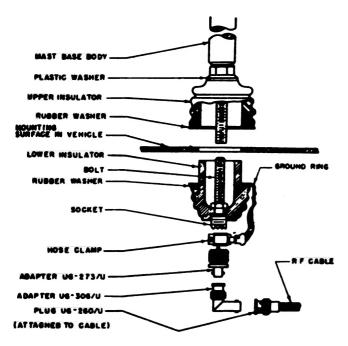
5. ALTACH D NC CONNECTOR (PLUG US-288/U DN THE ANTENNA
LEAD-IN TO ABAPTER US-273/U DR US-388/U.

TM2300-351-15-1-1

Figure 2-1. Assembly instructions for Mait Base MP-65() (for antenna cable connectors using BNC connectors).



Four 9-6. Automa anomaly precedure.



ASSEMBLY INSTRUCTIONS

ASSEMBLY INSTRUCTIONS

I. REPLACE ALL ITEMS OF MAST BASE MP-85-() EXCEPT THE MAST BASE
BODY WITH ABASTER RIT M-450 THIS STEP IS NOT REQUIRED FOR LATE
PRODUCTION MODELS OF MP-65-B WINNER ARE ALREADY EQUIPED WITH A
COAHAL TYPE SOCRET WITH DEMOVABLE GINDING POST ASSEMBLY.
2. PLACE ONE LANGE RUBGER WASHER AND THE UPPER INSULATOR OWER
THE MOUNTING MOLE.
3. PLACE THE SMALL PLASTIC WASHER ON THE STEM OF THE MAST
BASE BODY.
4. INSERT THE MAST BASE BODY MITO THE MOLE IN THE UPPER
HAMLA TOM

MEMILATOR.

5. PLACE THE OTHER LARGE RUDDER WASHER ON THE LOWER INSULATOR.

6. PLACE THE GROUND RING ON TOP OF THE WASHER, SROUND RING IS MET REQUIRED WHEN OF CABLE CG-SOGAU IS EMPLOYED.

7. INSERT THE LOWER INSULATION INTO THE MOUNTING MOLE FROM UNDERRELATIN.

8. ASSEMBLE THE MAST BASE BY HOLDING THE LOWER INSULATOR AND TURNING THE MAST BASE IS SECURE.

TO ATTACH ANTENNA LEAD-IN TO MAST BASE
I UNSCREW BINDING POST ASSEMBLY FROM LOWER INSULATOR AND
DISCARD.
2. ATTACH ADAPTER NG-273/U TO THE ADAPTER SOCKET ON THE

E. ATTACH BOAPTER US-273/U TO THE ABAPTER SOCKET ON THE LOWER INSULATION.

3. SLIP MOSE CLAMP OVER ABAPTER AND TIGHTEN SECURELY.

MOSE CLAMP IS NOT REGULES WHEN RY CABLE CS-586/U IS USES

A. ABAPTER US-386/U MAY DE ATTACHED TO ABAPTER US-273/U

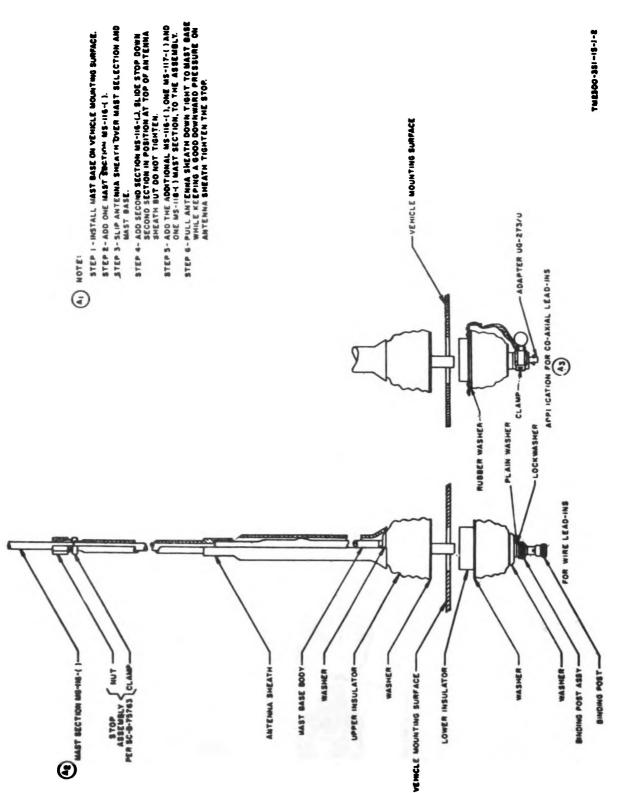
FARIGHT ANGLE CONNECTOR IS DESIRED.

3. ATTACH BIS CONNECTOR (PLUS US-288/U DN THE ARTENNA

LEAD-IN TO ABAPTER US-273/U OR US-306/U,

TM2300-351-15-1-1

Figure 2-1. Assembly instructions for Mant Base MP-65() (for antenna cable connectors using BN(: connectors).



Plyure 9-6. Automac assembly precedure.

J. USE LUBRICANT "PETROLATUM" WHITE PRAMEL" PER PEDERAL SPEC.

YV-6-18 ON EQUAL IN CASE OF TIGHT FIT.

IMPORTANT CAUTION SHOULD BE ERECISED IN TENTERING THE COURING
BUT OF THE ACCESSOON ASSEMBLY TO THE PLUG ASSEMBLY. ANCHOR
CABLE AND PLUG ASSEMBLY IN A STATIC POSITION AND ROTATE TO
BLAND COUPLING BUT BY HAND CLOCKWISE TO THRITEN GROUNET
SHUGLY AGAINST THE CABLE, WITHOUT EXCESSIVE FORCE.

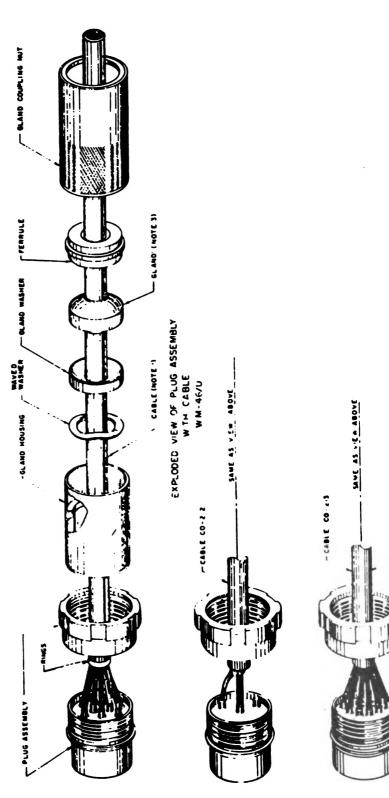


Figure 2-3. Annembly of waterproof vehicle terminal box plugn.

APPENDIX

REFERENCES

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, Lubrication Orders, and Modification Work Orders.
SB 11-131	Vehicular Radio Sets and Authorized Installations.
SB 38-100	Preservation, Packaging, and Packing Materials, Supplies, and Equipment Used by the Army.
TB SIG 364	Field Instructions for Painting and Preserving Electronic Command Equipment.
TM 11-5820-520-12	Operator and Organizational Maintenance Manual Radio Set AN/GRC-106.
TM 38-750	Army Equipment Record Procedures



TM 11-2300-351-15-1

By Order of the Secretary of the Army:

HAROLD K. JOHNSON, General, United States Army, Chief of Staff.

Official:

J. C. LAMBERT,

Major General, United States Army,

The Adjutant General.

Distribution:

Active Army:

CNGB (1)
CofSptS (1)
USAMB (10)
USACDCCEA, (1)
USACDCCEA, Ft Huachuca (1)
USACDCEC (10)
1st LOGCOMD (15)
9th LOGCOMD (10)
EUSA (10)
39th Sig Bn (10)
379th Sig Bn (10)
128th Sig Co (10)

336th Sig Det (10)
363d Sig Det (10)
364th Sig Det (10)
365th Sig Dep (10)
369th Sig Det (10)
Depots (2) except
TOAD (25)
SAAD (25)
LBAD (25)
LEAD (7)
Sig FLDMS (1)
USAELL (3)
USASPTCP (11)

NG: None.
USAR: None.

For explanation of abbreviations used see AR 320-50.

PIN: 016009-000
Digitized by GOSE